

CLAIMS

1. Metal sheet for building purposes, comprising a panel and two standing flanges lengthwise at opposite sides of the panel, characterised in that one or both
5 flanges have a non-rectilinear form in the plane of the panel.
2. Metal sheet according to claim 1, wherein one or both flanges have an essentially convex form.
- 10 3. Metal sheet according to claim 1, wherein one or both flanges have an essentially concave form.
4. Metal sheet according to claim 1, 2 or 3, wherein the panel contains one or more corrugations essentially parallel to one or both of the flanges, which
15 corrugation or corrugations give the flange or flanges the non-rectilinear form.
5. Metal sheet according to claim 2 and 4, wherein a corrugation or corrugations are present in the portion of the panel at the end or the ends of the length of the
20 sheet.
6. Metal sheet according to claim 3 and 4, wherein a corrugation or corrugations are present in the portion of the panel essentially halfway the length of the
sheet.
- 25 7. Metal sheet according to any one of the preceding claims, wherein the sheet is an essentially tapered sheet.
8. Metal sheet according to any of the preceding claims, wherein the sheet is a curved sheet.
- 30 9. Method for forming a metal sheet for building purposes, the sheet comprising a panel and two standing flanges lengthwise at opposite sides of the panel, the

method comprising the step of forming one or more corrugations in the panel essentially parallel to one or both of the flanges so as to give one or both of the flanges a non-rectilinear form in the plane of the panel.

- 5 10. Method according to claim 9, wherein one or more corrugations are formed over part of the length of the panel.
11. Method according to claim 9 or 10, wherein one or more corrugations are formed having different portions with a different height.
- 10 12. Method according to claim 9, 10 or 11, wherein the corrugation or corrugations are formed by using one or more profiled rolls.
13. Apparatus for forming a metal sheet for building purposes, the sheet
15 comprising a panel and two standing flanges lengthwise at opposite sides of the panel, the apparatus comprising means for forming one or more corrugations in the panel essentially parallel to a flange, such that the flange gets a non-rectilinear form in the plane of the panel.
- 20 14. Apparatus according to claim 13, comprising means for aligning the flange of the metal sheet, parallel to which the corrugations have to be formed by the forming means, and preferably comprising means for driving the sheet through the forming means.
- 25 15. Apparatus according to claim 13 or 14, comprising means for guiding the flange after the corrugations have been formed by the forming means, and preferably comprising means for drawing the sheet through the forming means.
- 30 16. Apparatus according to claim 13, 14 or 15, wherein the forming means comprise one or more rolls having a circular protrusion, where the cross-section of the protrusion essentially corresponds to the cross-section of the

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corrugation to be formed, and preferably one or more cooperating rolls having a complementary circular recess.

17. Apparatus according to claim 16, wherein the roll or rolls with a circular protrusion are motor driven and preferably adjustable in height.
18. Apparatus according to claim 16 or 17, wherein the rolls are replaceable.